Project to replace the traditional lead-acid batteries

4614. SHRI S.S. AHLUWALIA: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether there is any project for production of indigenous prototype of sodium-sulphur batteries to replace the traditional lead-acid batteries;

(b) if so, the details thereof; and

(c) the present status of the project?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI): (a) to (c) There is no project for production of sodium sulphur batteries to replace lead acid batteries; however a joint Research and Development project for development of sodium sulphur battery has been sponsored at four research organisations namely, Central Electrochemical Research Institute, Karaikudi, National Physical Laboratory, New Delhi, Indira Gandhi Centre for Atomic Research, Kalpakkum and Central Glass and Ceramic Research Institute, Calcutta. So far, experimental cells of 20Ah capacity have been built and tested for performance and experiments are continuing.

Scope for the augmentation of Hydel Power in Orissa

4615. SHRI JAGADISH JANI: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether there is a vast scope for the augmentation of hydel power in Orissa;

(b) if so, the various hydel power projects proposed to be executed in Eighth plan in that State;

(c) the total additional power likely to be generated from those hydel projects; and

(d) what are the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI): (a) The total hydro power potential in the State of Orissa has been assessed by Central Electricity Authority as 1983 MW at 60% load factor. Out of this 722.17 MW has already been exploited and 386.62 MW is under various stages of development.

(b) to (d) 19 Mini/Small Hydel Projects and 5 Major/Medium Hydel Projects are scheduled to be commissioned during 8th Five Year Plan in Orissa. The total additional power to be generated from these hydro-electric Projects is 869.25 MW (856 MW from major/medium hydel projects and 13.25 MW from mini/small hydel projects). The details of these projects are given in the statement.

Statement

List of Hydro-electric Projects of Orissa likely to be commissioned during 8th Five Year Plan

Sl. No.	Name of the Project	Capacity (MW)
I.	**Major & Medium Hydel projects**	
1.	Upper Kolab Stage-II (Unit 4)	80
2.	Rengali Extension (Unit 3)	50
3.	Upper Indravati (4×150 MW)	600
4.	Potteru (2×3 MW)	6
5.	Balimela Stage II (2×60 MW)	120
II.	**Small and Mini Hydel Projects**	
1.	Barboria	.650
2.	Kendupatna	.500
3.	Panpur	.300
4.	Biribati	.650
5.	Andharibhangi	.325
6.	Harabhangi	2.00
7.	Badanala	.650
8.	Berhampur Distributory	.200
9.	Upper Jonk	.500
10.	Badanala Canal drop	.400
11.	Deo Canal Drop	.475
12.	Baghalati Canal drop	.500
13.	Baghua Canal head	.200
14.	Sapua Padajor Canal drop	.200
15.	Titlagarh Canal drop	.200
	Indravati Canal Drop	
16.	-do- at RD 10-252 KM	2.00
17.	-do- at RD-24-152 KM	1.50
18.	-do- at RD-31.995 KM	1.00
19.	-do- at RD-36-995 KM	1.00
	TOTAL	869.25